

What is claimed is:

1. A suction head for a vacuum cleaner, comprising:

a casing having a suction port for sucking alien substances from the
5 floor;

an agitator rotatably installed inside the suction port, a plurality of
brushes being arranged on the agitator in the length direction;

an agitator driving unit for driving the agitator to perform reciprocating
rotation in a predetermined angle range; and

10 a resonance unit for resonating the reciprocating rotation of the agitator
driving unit.

2. The suction head of claim 1, wherein the agitator driving unit
comprises:

15 a driving motor for generating a driving force for performing
forward/backward reciprocating rotation in a predetermined angle; and

a driving force transmitting unit for transmitting the driving force of the
driving motor to the agitator.

20 3. The suction head of claim 2, wherein the driving force
transmitting unit comprises:

a rotary link fixed to a motor shaft of the driving motor and rotated
coaxially to the motor shaft;

a hinge bracket fixed to one side of the outer circumference of the agitator; and

a connecting rod of which an end is hingedly connected to a position of the rotary link eccentric from the rotation center of the rotary link, and another
5 end is hingedly connected to the hinge bracket.

4. The suction head of claim 3, wherein the resonance unit comprises a pair of coil springs of which one side ends are fixed to both ends of the rotary link, and the other side ends are fixed to the driving motor or the
10 casing.

5. The suction head of claim 2, wherein the resonance unit comprises a spiral spring of which an end is fixed to the motor shaft of the driving motor, and another end is fixed to the driving motor or the casing.
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6. The suction head of claim 2, wherein the resonance unit comprises a torsion bar positioned in the agitator coaxially to a central axis of the agitator, the torsion bar of which an end is fixed to the agitator, and another end is fixed to the casing.
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7. The suction head of claim 1, wherein the agitator driving unit comprises a forward/backward rotation motor for generating a driving force for performing forward/backward reciprocating rotation in a predetermined angle, a

motor shaft of which being connected to the agitator, coaxially to the central axis of the agitator.

8. The suction head of claim 7, wherein the resonance unit
5 comprises a spiral spring of which an end is fixed to the motor shaft of the driving motor, and another end is fixed to the driving motor or the casing.

9. The suction head of claim 1, wherein the resonance unit
comprises a torsion bar positioned in the agitator coaxially to a central axis of
10 the agitator, the torsion bar of which an end is fixed to the agitator, and another end is fixed to the casing.

10. The suction head of claim 1, wherein the brushes are evenly
arranged at regular intervals in the length direction of the agitator.

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11. The suction head of claim 1, wherein the brushes are arranged
in a plurality of rows in the length direction of the agitator.

12. The suction head of claim 1, further comprising a suction nozzle
20 installed inside the casing, for collecting the alien substances sucked from the suction port, a volume of which being reduced from the suction port to the opposite side.